

ABSTRACT

5 A wide variety of reactions can be advantageously affected
and directed by a spectral catalyst which duplicates the
electromagnetic energy spectral pattern of a physical catalyst
and when applied to a reaction system transfers a quanta of
energy in the form of electromagnetic energy to control and/or
10 promote the reaction system. The spectral catalysts utilized
in this invention can replace and/or augment the energy
normally provided to the reaction system by a physical
catalyst. A spectral catalyst may also act as both a positive
catalyst to increase the rate of a reaction or as a negative
15 catalyst to decrease the rate of reaction.